

THE FACTORY AUTOMATION COMPANY

**FANUC**

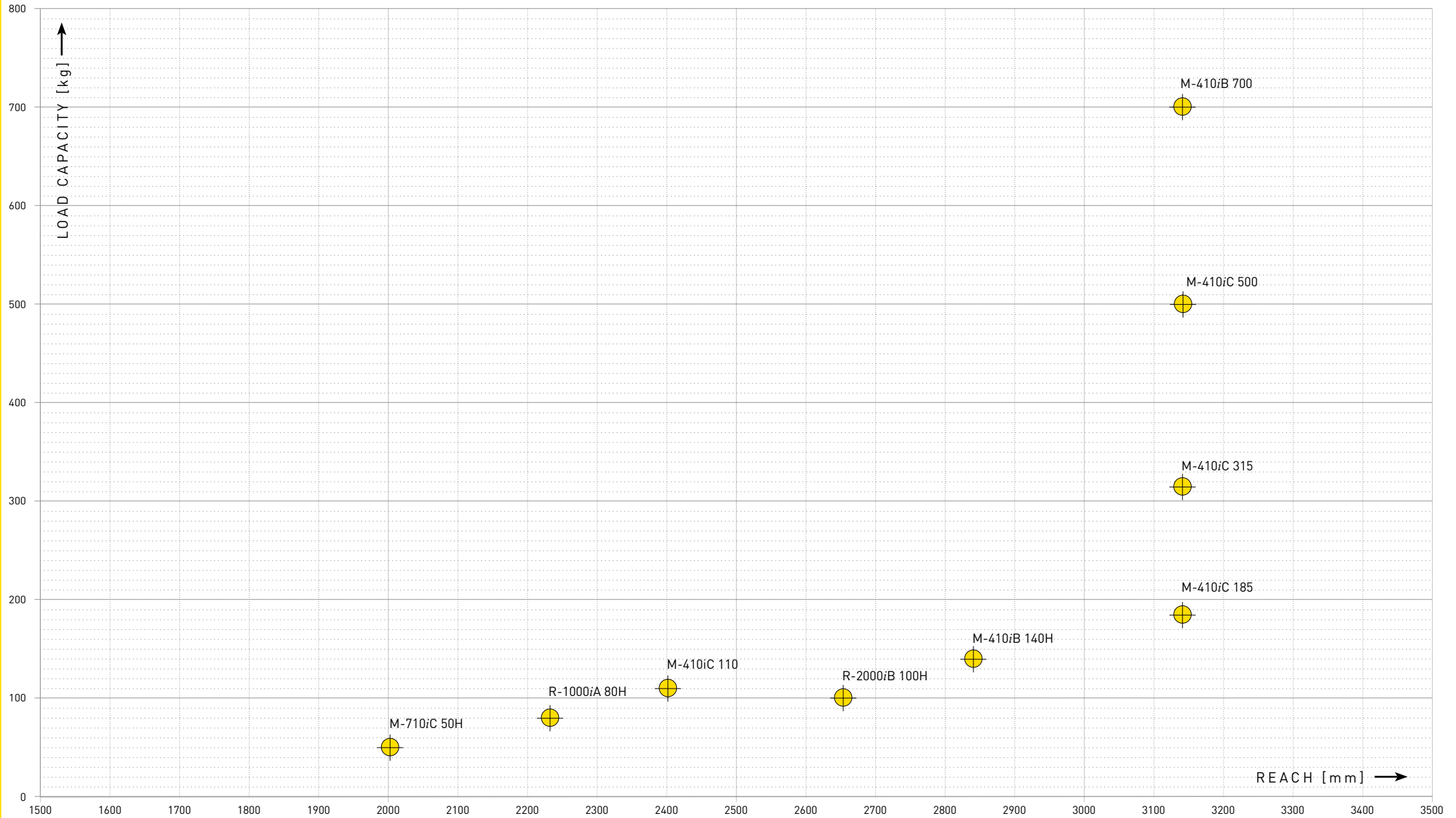
# Robots

Product overview



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# PALLETISING ROBOT



# Palletising Robots



M-710iC/50H



M-410iC/110



R-1000iA/80H



M-410 Series

## Available robot versions:

M-710iC/50H	5-axis
R-1000iA/80H	5-axis
M-410iC/110	Standard model
M-410iB/140H	5-axis
M-410iB/700	Standard model
M-410iC/185, /315, /500	Standard model



Robot			Controller						Max. load capacity at wrist (kg)	Reach (mm)	Controlled axes	Repeatability (mm)	Mechanical weight (kg)	Motion range [°]						Maximum speed [°/s]						J4 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J5 Moment/ Inertia (Nm/kgm <sup>2</sup> )	J6 Moment/ Inertia (Nm/kgm <sup>2</sup> )	Average Power consumption (kW)	Protection	
Series	Version	Type	Version		Cabinet type									Motion range [°]						Maximum speed [°/s]										Body standard/ optional	Wrist & J3 arm standard/ optional
			R-30iB Plus	Compact cabinet	Open air cabinet	Mate cabinet	A-cabinet	B-cabinet						J1	J2	J3	J4	J5	J6	J1	J2	J3	J4	J5	J6						
M-710	iC	50H	●	-	-	○	●	○	50	2003	5	± 0.15	540	360	225	440	234	720	-	175	175	175	175	720	-	150/6.3	68/2.5	-	2.5	IP54/IP67	IP67
R-1000	iA	80H	●	-	-	○	●	○	80	2230	5	± 0.03**	610	360	245	215	20	720	-	185	180	180	180	500	-	-/48	-/25	-	2.5	IP54 /IP56	IP67
M-410	iC	110	●	-	-	○	●	○	110	2403	4	± 0.2	1030	370	125	140	720	-	145	130	140	420	-	-	53	-	-	1	IP54	IP67	
M-410	iB	140H	●	-	-	○	●	○	140	2850	5	± 0.2	1200	360	155	112	20	720	-	140	115	135	135	420	-	147	53	-	3	IP54	IP54
M-410	iC	185	●	-	-	○	●	○	185	3143	4	± 0.5	1600(1330)	360	144	136	720	-	140	140	140	305	-	-	88	-	-	3	IP54	IP54	
M-410	iC	315	●	-	-	○	●	○	315	3143	4	± 0.5	1600(1330)	360	144	136	720	-	90	100	110	195	-	-	155	-	-	3	IP54	IP54	
M-410	iC	500	●	-	-	○	●	○	500	3143	4	± 0.5	2410(1910)	370	144	136	720	-	85	85	85	200	-	-	250	-	-	3	IP54	IP54	
M-410	iB	700	●	-	-	○	●	○	700	3143	4	± 0.5	2700	360	144	136	540	-	60	60	60	120	-	-	490	-	-	3	IP54	IP54	

● standard ○ on request - not available ( ) with hardware and/or software option \*\* Based on ISO9283



# SR

# PALLETISING

M-710

R-1000

M-410

## ROBOT SERIES

Version			iA								iC	iA	iC	iB	iC			iB	
Type			3	3C	3U	3H	6	6C	6H	12	20	50H	80H	110	140H	185	315	500	700
CONTROLLER	Controller Version	R-30iB Plus	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
	Compact		●	●	●	●	●	●	●	●	-	-	-	-	-	-	-	-	-
	Open Air Cabinet		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	Mate Cabinet		-	-	-	-	-	-	-	-	○	○	-	-	-	-	-	-	-
	A-Cabinet		-	-	-	-	-	-	-	-	●	●	●	●	●	●	●	●	●
	B-Cabinet		-	-	-	-	-	-	-	-	○	○	○	○	○	○	○	○	○
Max Load Capacity at wrist (kg)			3	3	3	3	6	6	6	12	20	50	80	110	140	185	315	500	700
Reach (mm)			400	400	350	400	650	650	650	900	1100	2003	2230	2403	2850	3143	3143	3143	3143
Controlled axes			4	4	4	3	4	4	3	4	4	5	5	4	5	4	4	4	4
Repeatability (mm)			± 0.01 [J1, J2] ± 0.01 [J3] ± 0.004° [J4]**	± 0.01 [J1, J2] ± 0.01 [J3] ± 0.004° [J4]**	± 0.01 [J1, J2] ± 0.01 [J3] ± 0.004° [J4]**	± 0.01 [J1, J2] ± 0.01 [J3] ± 0.01 [J3]**	± 0.01 [J1, J2] ± 0.01 [J3] ± 0.004° [J4]**	± 0.01 [J1, J2] ± 0.01 [J3] ± 0.004° [J4]**	± 0.01 [J1, J2] ± 0.01 [J3] ± 0.01 [J3]**	± 0.01 [J1, J2] ± 0.01 [J3] ± 0.01 [J3]**	± 0.15	± 0.03**	± 0.2	± 0.2	± 0.5	± 0.5	± 0.5	± 0.5	± 0.5
Mechanical weight (kg)			19	21	27	17	30	32	28	53	64	540	610	1030	1200	1600 (1330) <sup>*4,5</sup>	1600 (1330) <sup>*4,5</sup>	2410 (1910) <sup>*4,5</sup>	2700
MOTION RANGE (°)	J1		284	284	450	284	296	296	296	290	290	360	360	370	360	360	360	370	360
	J2		290	290	450	290	300	300	300	290	290	225	245	125	155	144	144	144	144
	J3		200 mm <sup>*16</sup>	200 mm <sup>*16</sup>	140 mm	200 mm <sup>*16</sup>	210 mm <sup>*16</sup>	210 mm <sup>*16</sup>	210 mm <sup>*16</sup>	450 mm optional 300 mm	450 mm optional 300 mm	440	215	140	112	136	136	136	136
	J4		1440	1440	1440	-	1440	1440	-	1440	1440	234	20	720	20	720	720	720	540
	J5		-	-	-	-	-	-	-	-	-	720	720	-	720	-	-	-	-
	J6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
MAXIMUM SPEED (°/S)	J1		720	720	610	720	440	440	440	440	440	175	185	145	140	140	90	85	60
	J2		780	780	840	780	700	700	700	510	500	175	180	130	115	140	100	85	60
	J3		1800 mm/sec	1800 mm/sec	1500 mm/sec	1800 mm/sec	2000 mm/sec	2000 mm/sec	2000 mm/sec	2800 mm/sec	2800 mm/sec	175	180	140	135	140	110	85	60
	J4		3000	3000	3000	-	2500	2500	-	2500	1700	175	180	420	135	305	195	200	120
	J5		-	-	-	-	-	-	-	-	-	720	500	-	420	-	-	-	-
	J6		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
J1		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
J4 Moment/Inertia (Nm/kgm²)			--/0.06	--/0.06	--/0.06	-	--/0.12	--/0.12	-	--/0.30	--/0.45	150/6.3	-/48	53	147	88	155	250	490
J5 Moment/Inertia (Nm/kgm²)			-	-	-	-	-	-	-	-	-	68/2.5	-/25	-	53	-	-	-	-
J6 Moment/Inertia (Nm/kgm²)			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Average power consumption [Kw]			0.25	0.25	0.25	0.25	0.35	0.35	0.35	0.45	0.45	2.5	2.5	1	3	3	3	3	3
PROTECTION	Body Standard/optional		IP20	IP54	IP20	IP20	IP20	IP54	IP20	IP20 / IP65	IP20 / IP65	IP54/IP67	IP54/IP67	IP54	IP54	IP54	IP54	IP54	IP54
	Wrist and J3 Arm Standard/optional		IP20	IP54	IP20	IP20	IP20	IP54	IP20	IP20 / IP65	IP20 / IP65	IP67	IP67	IP67	IP54	IP54	IP54	IP54	IP54